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IS 7610-3 (1975): Machinery fabrics, wool : Part 3 - Sizing flannel (Superseding IS 6055 ) [TXD 33: Industrial Fabrics]



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IS:7610 ( Part III ) - 1975  
( Superseding IS: 6055 - 1970 )

*Indian Standard*  
SPECIFICATION FOR  
MACHINERY FABRICS, WOOL  
PART III SIZING FLANNEL

UDC 677.621:677.31.064



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INDIAN STANDARDS INSTITUTION  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110001

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June 1975

**AMENDMENT NO. 2 MAY 2002  
TO  
IS 7610 ( PART 3 ) :1975 SPECIFICATION FOR  
MACHINERY FABRICS, WOOL  
PART 3 SIZING FLANNEL**

[ *Page 4, Table 1, Sl No. (ii), col 2 ( see also Amendment No. 1) —*  
Substitutue 'Weave' for 'Wave'

( TX 30 )

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Reprography Unit, BIS, New Delhi, India

# *Indian Standard*

## SPECIFICATION FOR MACHINERY FABRICS, WOOL

### PART III SIZING FLANNEL

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(Continued on page 2)

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( Continued from page 1 )

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***Indian Standard***  
**SPECIFICATION FOR**  
**MACHINERY FABRICS, WOOL**  
**PART III SIZING FLANNEL**

**0. FOREWORD**

**0.1** This Indian Standard (Part III) was adopted by the Indian Standards Institution on 28 February 1975, after the draft finalized by the Wool and Wool Products Sectional Committee had been approved by the Textile Division Council.

**0.2** Sizing flannel is a plain/or twill woven fabric made of wool fibres only or blends of wool and man-made fibres. This cloth is imparted a soft finish on one side which partially conceals the weave.

**0.3** A series of standards are being formulated on machinery fabrics, Part I of which covers the general requirements and other particulars regarding marking, packaging, sampling and criteria for conformity of machinery fabrics. Since this part covers the requirements of sizing flannel, IS : 6055-1970\* is being withdrawn.

**0.4** For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960\*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

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**1. SCOPE**

**1.1** This standard (Part III) prescribes the manufacturing particulars and other requirements of sizing flannel.

**2. MANUFACTURING PARTICULARS**

**2.1** The manufacturing particulars of sizing flannel are given in Table 1.

\*Specification for sizing flannel.

†Rules for rounding off numerical values ( revised ).



**TABLE 1 MANUFACTURING PARTICULARS OF SIZING FLANNEL**

( Clause 2.1 )

SL No.	PARTICULAR	REQUIREMENT
(1)	(2)	(3)
i)	Composition of yarn:	
	a) Warp	All wool or Blends of wool with man-made fibres containing not less than 80 percent of wool fibres or Flax or Polyamide or High tenacity viscose rayon yarn
	b) Weft	All wool or Blends of wool with man-made fibres containing not less than 80 percent of wool fibres
ii)	Wave	Plain or twill
iii)	Type of finish	Milled and/or raised

NOTE—In case of flax, polyamide or high tenacity viscose rayon yarn in warp, the count of weft yarn and the weave of cloth shall be such arranged so as to have predominance of weft.

### 3. REQUIREMENTS

**3.1** The sizing flannel shall conform to the requirements given in Table 2 in addition to complying with the stipulations laid down in Part I of the standard.

**3.2** The sizing flannel shall be tested for the various characteristics by the methods specified in Part I of the standard.

\*Specification for machinery fabrics, wool : Part I General.

**AMENDMENT NO. 1    MARCH 1977**  
**TO**  
**IS : 7610 ( Part III )-1975 SPECIFICATION FOR**  
**MACHINERY FABRICS, WOOL**  
**PART III    SIZING FLANNEL**

**FOREWORD**

This amendment is being issued to transfer the requirements in respect of the nominal count of basic yarn and threads per decimetre to Table 1 since these are the particulars meant as a guide to the manufacturers.

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**Alterations**

*( Page 5, Table 2 )*

- a) Delete the requirements given at SI No. (i) and (ii) and renumber the existing SI No. ' (iii), (iv), (v) and (vi) ' as SI No. ' (i), (ii), (iii) and (iv) ' respectively.
- b) Delete the Note.

**Addenda**

*( Page 4, Table 1 )*

- a) Add the following after SI No. (i) under the respective columns and renumber the existing SI No. ' (ii) and (iii) ' as SI No. ' (iv) and (v) ' respectively:

(1)	(2)	(3)
i) Nominal count of basic yarn ( warp and weft )		100 to 250 tex; ( Nm 4 to 10 )
ii) Threads/dm		
a) Ends		100 to 135
b) Picks		85 to 130

- b) Renumber the existing ' Note ' as ' Note 1 ' and add the following as ' Note 2 ':

' NOTE 2 — The constructional particulars of cloth are left to the choice of the manufacturer subject to the range specified for counts of yarn and number of ends and picks.'

( TDC 4 )

TABLE 2 REQUIREMENTS OF SIZING FLANNEL

( Clause 3.1 )

SL No.	CHARACTERISTIC	REQUIREMENT
( 1 )	( 2 )	( 3 )
i)	Nominal count of basic yarn ( warp and weft )	100 to 250 tex ( Nm 4 to 10 )
ii)	Threads/dm:	
	a) Ends	100 to 135
	b) Picks	85 to 120
iii)	Mass ( weight ), g/m <sup>2</sup>	350 to 550
	<i>Tolerance</i>	+ 5 percent on value specified in the contract
iv)	Breaking load on 15 × 20 cm strips, Min:	
	a) For fabrics made of wool or blends containing at least 80 percent of wool fibres in warp yarn:	
	1) Warpway	60 kg
	2) Weftway	50 kg
	b) For other fabrics:	
	1) Warpway	200 kg
	2) Weftway	75 kg
v)	Length, m	25 or as ordered
	<i>Tolerance</i>	No minus tolerance;
vi)	Width, cm	137, 160 or as ordered
	<i>Tolerance</i>	± 2.5 cm

NOTE — The constructional particulars of cloth are left to the choice of the manufacturer subject to the range specified for count of yarn and number of ends and picks.

**INDIAN STANDARDS**  
**ON**  
**MILL-MADE WOOL FABRICS**

**IS:**

- 673-1973 . Cloth, woollen, twill, dyed ( *second revision* )
- 674-1973 Flannel, hospital, grey ( *second revision* )
- 675-1973 Bunting, worsted ( *second revision* )
- 677-1974 Cloth, drab mixture, woollen ( water resistant ) ( *second revision* )
- 679-1974 Great coat cloth, woollen, dyed ( *second revision* )
- 680-1974 Cloth barethea ( *second revision* )
- 1530-1972 Baize cloth ( *first revision* )
- 1531-1972 Blanketing cloth ( *first revision* )
- 1681-1972 Hospital blankets woollen, dyed ( *first revision* )
- 1719-1969 Felt, woollen ( *first revision* )
- 1793-1972 Guide for marking textile materials made of wool ( *first revision* )
- 2319-1970 Serge ( *first revision* )
- 7610 ( Part I )-1975 Machinery fabrics, wool: Part I General
- 7610 ( Part II )-1975 Machinery fabrics, wool: Part II Clearer cloth ( Superseding  
IS: 6054-1970 )

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Colour fastness of textile materials	Sampling of textiles, methods for
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Dyestuffs	Sizing and finishing materials
Grading of fibres and yarns	Spinning machinery components
Grading of raw silk	Terminology
Hosiery	Textile floor coverings
Jute—bags and fabrics	Textile materials for fishing
Jute mill accessories	Textile mill accessories (other than jute mills)
Narrow fabrics	Twines
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